

# Receiving Report

Date:

14-11-28

Batch No:

130992

Supplier:

Air Dynamics

Dart P/O:

\_\_\_\_\_

Packing Slip:

Yes ☒

No ☐

Invoice:

Yes ☒

No ☐

Receipt:

Cash ☐

Cr ☒

New Supplier:

Yes ☐

No ☒

Release Note Attached:

Yes ☒

No ☐

N/A ☐

Waybill Attached:

Yes ☒

No ☐

N/A ☐

Shipment Complete:

Yes ☒

No ☐

N/A ☐

QC18 Inspection

\_\_\_\_\_

N/A ☒

Work Order

\_\_\_\_\_

N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Location

\_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID: PO26437

Purchase Order Date 11/10/2014

PO Print Date 11/10/2014

Page Number 1 of 1

Order From :

VC-AD001

Ship To : DART AEROSPACE LTD

AIR DYNAMICS  
19420B CLARK GRAHAM AVENUE  
BAIE D'URFE, QUEBEC H9X 3R8

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

REVISED  
Q15

Contact Name

Vendor Phone 514-457-4287

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Ship To Contact

Terms

Net 30

Ship To Phone

Currency

CAD

Ship Via:

Purolator ground collect

FOB

EXW - (Ex Works)

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extend Pri
1	71400-11	515.349 PRIMER DESOTO	11/28/2014		6.00 Each	\$355.00	\$2,130.00
	Procurement Quality Clauses A005 RIGHT OF ENTRY A014 SHELF LIFE CONTROLLED MATERIAL; 70% SHELF LIFE REQUIRED AT RECEIPT A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS		Yes 11/28/2014				

8014-11-28

Deliver To: ANDY

Line Total: \$2,130.00

PO Total: \$2,130.00

PO Instructions: Purolator Acc#7684382

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 3

Change Date: 11/10/2014

CL N



# Air Dynamics

19420B Clark Graham Avenue  
Baie D'Urfé, Québec H9X 3R8

Tel.: (514) 457-4287  
Fax: (514) 457-4143

## BON DE LIVRAISON

PACKING SLIP -731310

CUSTOMER NO. 700

Facture à:  
Invoice to:

Expédié à:  
Ship to:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKS BURY ON K6A 1K7

ACCTS PAY/ DALE BATES

SAME

Date	Expédié par/Ship via:	F.A.B./F.O.B.	Conditions/Terms
11/27/14	PUROLATOR COLLECT		

No. de commande Purchase order no.	Date de commande Order date	Vendeur(se)/Salesperson	Notre No. de commande/Our order number
PO26437	11/10/14	SARAH FAIRHURST	

Qté req/ Qty req	Expédié Shipped	En souffe/ B.O.	No. d'article Item Number	Description	Prix unitaire Unit price	Prix rapporté Extended price
6	6		515X349	ORDERED BY CHANTAL LAVOIE - SHIP VIA PUROLATOR GROUND LINE#1 - INTERNAL#71400-11		
6	6		BATCH	PRIMER-GREEN (GL.KIT) DMS2144/BMS10-79 TY.3 (c/w 910x533). BATCH #B: 30852 KIT LOT # 515365 EXP. SEPT .2015 515X349- 1 GALLON BASE- LOT# 444418 910X533- 1 GALLON -ACTIVATOR LOT# 205336 MFG CERTIFICATION/MSDS INCLUDED <i>+ Test Reports</i>		
<p>JE CERTIFIE PAR LES PRESENTES QUE LES PIECES D'AERONEFS DECRIES DANS LE PRESENT CERTIFICAT ONT ETE OBTENUES D'UNE SOURCE D'APPROVISIONNEMENT CONFORME AUX CONDITIONS AUXQUELLES LE CERTIFICAT D'AUTORISATION DE DISTRIBUTION NO. 12-89 DU MINISTERE DES TRANSPORTS A ETE ATTRIBUE.</p> <p>DATE <u>27 Novembre 2014</u> SIGNED <u>Brenda Shea</u></p>				<p>I hereby certify that the aircraft parts, appliances and/or materials described hereon were acquired from a source of supply that is consistent with the conditions under which the Department of Transport distributor approval No. 12-89 has been granted.</p> <p>Date: <u>November 27 2014</u> Inspector's Signature <u>Brenda Shea</u></p>		

# Certificate of Conformance/ Certificat de conformité

Packing Slip/Bon de ramassage 58022494 Page: 1 of 2

PPG Aerospace  
A Division of PPG Canada Inc  
5676 Timberlea Blvd.  
Mississauga, ON L4W 4M6  
Phone: 905-629-7999

Fax: 905-629-7009

Order Date/ 11/13/14  
Date de la Commande:  
Cust. No./ TC000104  
No. de réf du client:  
Terms/ NET45  
Termes:  
Cust. P.O./ 030852  
No. de bon de Commande:  
Site: 3738CN

Order No/ S125249 11/25/14  
No. de Commande: 11:45:47



CSR:

Remarks/  
Remarques: **BRENDA SHEA /TR**

Sold To/ TC000104

Vendu à: AIR DYNAMICS COMPANY LIMITED  
19420B CLARK GRAHAM AVENUE  
BAIE D'URFE, PQ H9X 3R8  
CANADA

30852

26 NOV. 2014

Ship via/ **SEE BELOW**  
Expédié par:

Ship To TC000104

Expédié à AIR DYNAMICS COMPANY LIMITED  
19420B CLARK GRAHAM AVENUE  
BAIE D'URFE, PQ H9X 3R8  
CANADA

Line/ Ligne	Qty Ordered/ Qté. commandée.UM	Description	Req Date/ Date Requite	Due Date/ Date Due	Promise Date/ Date Promise	Qty to Ship/ Qté. Disponible	Qty Picked/ Qté. Livrée
<p>CERTIFICATE OF CONFORMANCE TEST REPORT RE: LINE 7 &amp; LINE 11 ✓ MIN 90% SHELF LIFE ITEMS MADE AT ASC CANADA- PURCHASED ITEMS 75% SHEFLIFE MOJAVE BULK CERT REQUIRED FOR ITEMS - LINE 9 SEALANT BULK MATERIAL MFD PPG AEROSPACE, PRC-DESOTO INT'L, MOJAVE,CA MASTINOX BULK MATERIAL MFD PPG AEROSPACE, FRANCE * Labelling Requirements: MANUFACTURE/PACKAGE DATE AND EXPIRY DATE TO APPEAR ON ALL DOCUMENTATION AN LABELS * Shipping Info: PARTIAL SHIPMENT IS ACCEPTABLE SHIP 7+ BOXES VIA GO JIT ACCT #2060881 SHIP 6 BOXES OR LESS VIA DICOM ACCT #0313470</p>							
11	6 EA	0515X349XXIKG22K BMS1079/DMS2144/DHMS/VMS 515X349/910X533 GL KIT Customer Item: 515X349 SPEC: DMS 2144 REV E COMP A SPEC: BMS 10-79 REV. P TY III CL A GR A Lot No: 515365 *Location: FRA-9 - 515X349 001 Batch: 444418 - 910X533 001 Batch: 205336	11/25/14	11/25/14	11/25/14	6	6

Perm: 9/2014  
DOE: 9/2015

SHIP WITH SALES ORDER # 5125293

1125 5125294  
Date Shipped/  
Date D'expédition 11/25/14

We certify that this material has been manufactured and tested in accordance with applicable specification(s). Test data pertaining to this material is on file and available for inspection upon request.

N Maharaj  
Niri Maharaj  
Quality Control

ASC CANADA  
QC5

11/25 11:53

6 boxes 71Ks

# Certificate of Conformance/ Certificat de conformité

Packing Slip/Bon de ramassage 58022494 Page: 2 of 2

PPG Aerospace  
A Division of PPG Canada Inc  
5676 Timberlea Blvd.  
Mississauga, ON L4W 4M6  
Phone: 905-629-7999

Fax: 905-629-7009

Order Date/ 11/13/14  
Date de la Commande:  
Cust. No./ TC000104  
No. de réf du client:  
Terms/ NET45  
Cust. P.O./ 030852  
No. de bon de Commande:  
Site: 3738CN

Order No/ S125249 11/25/14  
No. de Commande: 11:45:47



CSR:

Remarks/ BRENDA SHEA /TR  
Remarques:

Sold To/ TC000104  
Vendu à: AIR DYNAMICS COMPANY LIMITED  
19420B CLARK GRAHAM AVENUE  
BAIE D'URFE, PQ H9X 3R8  
CANADA

30852

26 NOV. 2014

Ship via/ SEE BELOW  
Expédié par:

Ship To TC000104  
Expédié à: AIR DYNAMICS COMPANY LIMITED  
19420B CLARK GRAHAM AVENUE  
BAIE D'URFE, PQ H9X 3R8  
CANADA

Line/ Ligne	Qty Ordered/ Qté. commandée.UM	Description	Req Date/ Date Requête	Due Date/ Date Due	Promise Date/ Date Promise	Qty to Ship/ Qté. Disponible	Qty Picked/ Qté. Livrée
In compliance with the chemical registration laws of CANADA							
12	1 EA	TESTREPORTEAR99 TEST REPORT EAR99 TEST REPORT LINE 11 SPEC: BMS 10-79 REV. P TY III CL A GR A *Location: STOCK	11/25/14	11/25/14	11/25/14	1	1 001275

1125 S125249

Date Shipped/ Date D'expédition	11/25/14
------------------------------------	----------

We certify that this material has been manufactured and tested in accordance with applicable specification(s). Test data pertaining to this material is on file and available for inspection upon request.

N Maharaj  
Niri Maharaj

ASC CANADA  
QC5

Quality Control



PPG Aerospace  
PRC-DeSoto

30852

26 NOV. 2014

PRC-DeSoto International, Inc.  
11601 United Street  
Mojave, California 93501 USA  
Telephone (661) 232-6401  
Fax (661) 232-6888  
www.ppgaerospace.com

## TEST REPORT

Page 1 of 1

### REFERENCE: DMS 2144E, Composition A

This is to certify that the material described herein meets or exceeds the test requirements of the referenced specification and that all tests have been performed in accordance to the specification.

BASE: 515X349 BATCH: 444418  
ACTIVATOR: 910X533 BATCH: 205336

LOT #: \_\_\_\_\_

IN COMPLIANCE WITH CHEMICAL REGISTRATION LAWS OF

*Canada*

ITEM	REQUIREMENT	RESULT
Condition in Container FTMS 141 Mthd. 3011.1	The material, individual components and catalyzed, shall be easily mixed to a smooth homogenous condition free of skins, grit, lumps, or gelled particles.	Conforms
Spraying Properties FTMS 141 Mthd. 4331.1	The applied film shall be free of streaks, pinholes, bubbles, and other film defects.	Conforms
Non-volatile Content ASTM D2369	Mixed: 39.3 ± 2%	41.02
Weight per Gallon ASTM D1475	Base: 10.80 ± 0.3 lb/gal	10.78
	Catalyst: 7.00 ± 0.2 lb/gal	7.00
Fineness of Grind ASTM D1210	5 minimum	5
Viscosity	14-18 seconds maximum, Zahn #2 cup	18 seconds
Usable Pot Life	Shall meet requirements 13 and 14 after a minimum of 8 hours	Conforms
Settling	Shall show no signs of hard settling and pigment shall readily redisperse.	Conforms
Gloss	Maximum of 15 units.	5.2
Solvent Resistance	No softening or dissolving.	Conforms
Flexibility	Shall be no film failure or adhesion loss before and after aging.	Conforms
Adhesion	No blistering or adhesion failure.	Conforms
DMS 2014 Resistance	No softening below a pencil hardness of F or loss of adhesion.	Conforms, 5H

Edward A. Aguirre, Sr.\*

Quality Assurance  
Mojave, California  
AS9100 REV. C & ISO 9001:2008 Registered QMS

\*Signature on File.  
DMS 2144D,  
8/6/08, vm

Recommendations for the use of our products are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will PRC-DeSoto International, Inc. be liable for consequential damages to anyone in excess of the purchase price of the products.



PPG Aerospace  
PRC-DeSoto

830852

26 NOV. 2014

PRC-DeSoto International, Inc.  
11601 United Street  
Mojave, California 93501 USA  
Telephone (661) 232-6401  
Fax (661) 232-6888  
www.ppgaerospace.com

## TEST REPORT

Page 1 of 1

### REFERENCE: BMS 10-79P, Type III, Class A, Grade A

This is to certify that the material described herein meets or exceeds the test requirements of the referenced specification and that all tests have been performed in accordance to the specification.

### URETHANE COMPATIBLE CORROSION RESISTANT PRIMER

BASE: 515X349 BATCH: 444418 DATE MFG:  
CURING SOLUTION: 910X533 BATCH: 205336 DATE MFG:

Lot #: \_\_\_\_\_ Customer: \_\_\_\_\_

Date Shipped: \_\_\_\_\_ Shipping Order #: \_\_\_\_\_ P. O. #: \_\_\_\_\_

IN COMPLIANCE WITH CHEMICAL REGISTRATION LAWS OF Canada

TABLE / ITEM		REQUIREMENT	RESULT
II.1	Condition In Container Sec. 8.2.1	All components shall be homogeneous, free of skins, gels, livering, undispersed pigments, and foreign contaminants.	Conforms
II.3	Non-volatile Content ASTM D2369	Base: $60.9 \pm 2.0\%$	61.96
II.4	Amine Content D6-84113	Curing Solution: $5.8 \pm 0.5\%$	5.77
II.5	Weight Per Gallon ASTM D 1475	Base: $10.8 \pm 0.2$ lb/gal.	10.78
		Curing Solution: $7.0 \pm 0.2$ lb/gal.	7.0
III.3a	Adhesion, Dry Sec. 8.2.5.1	Fresh Mix: No loss of adhesion. A minimum rating of 7 in accordance with BSS 7225.	Conforms,10
		Pot Life: No loss of adhesion. A minimum rating of 7 in accordance with BSS 7225.	Conforms,10
III.3b	Adhesion, Wet Sec. 8.2.5.2	Fresh Mix: No blistering. A minimum rating of 7 in accordance with BSS 7225.	Conforms,10
		Pot Life: No blistering. A minimum rating of 7 in accordance with BSS 7225.	Conforms,10
III.6	Hydraulic Fluid Resistance Sec. 8.2.8	Fresh Mix: No visible film deterioration. HB minimum pencil hardness.	Conforms,3H
		Pot Life: No visible film deterioration. HB minimum pencil hardness.	Conforms,3H

Haztrax File

Edward A. Aguirre, Sr.\*

Quality Assurance  
Mojave, California  
AS9100 REV. C & ISO 9001:2008 Registered QMS

\*Signature on File.  
BMS 10-79  
2/26/13, cc

Recommendations for the use of our products are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will PRC-DeSoto International, Inc. be liable for consequential damages to anyone in excess of the purchase price of the products.

Date of issue 9 November 2014

Version 9.02

## 1. Product and company identification

Product name : 515X349 BASE COMPONENT  
Code : 515X349 BASE COMPONENT  
Supplier : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711  
Emergency telephone : (412) 434-4515 (U.S.)  
number : (514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

## 2. Hazards identification

Emergency overview : WARNING!  
FLAMMABLE LIQUID AND VAPOR. HARMFUL IF ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.  
Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

### Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.  
Ingestion : May be harmful if swallowed.  
Skin : Toxic in contact with skin. Severely irritating to the skin. May cause an allergic skin reaction.  
Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

### Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. NTP, IARC, and OSHA have classified chromium (+6) compounds as carcinogenic. OSHA considers all Cr+6 compounds as potential occupational carcinogens capable of causing lung cancer above the recommended exposure limits.

Medical conditions aggravated by over-exposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

## 2. Hazards identification

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

## 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
crystalline silica, respirable powder (<10 microns)	14808-60-7	10 - 30
n-butyl acetate	123-86-4	10 - 30
butanone	78-93-3	10 - 30
strontium chromate	7789-06-2	7 - 13
cyclohexanone	108-94-1	5 - 10
butan-1-ol	71-36-3	1 - 5
barium chromate	10294-40-3	0.1 - 1
carbon black, respirable powder	1333-86-4	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5. Fire-fighting measures

- Flammability of the product : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

### Extinguishing media

- Suitable : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable : Do not use water jet.
- Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides

## 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

- Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Ingestion of product or cured coating may be harmful. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120F / 49C.

**8 . Exposure controls/personal protection**

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
crystalline silica, respirable powder (<10 microns)	TWA	0.025 mg/m <sup>3</sup> R	10 MG/M3 / (%SiO <sub>2</sub> +2) R Z 250 MPPCF / (%SiO <sub>2</sub> +5) R Z	0.1 mg/m <sup>3</sup> R	0.1 mg/m <sup>3</sup> R	Not established
n-butyl acetate	TWA	150 ppm	150 ppm	150 ppm	150 ppm	Not established
	STEL	200 ppm	Not established	200 ppm	200 ppm	Not established
butanone	TWA	200 ppm	200 ppm	200 ppm	200 ppm	Not established
	STEL	300 ppm	Not established	300 ppm	300 ppm	Not established
strontium chromate	TWA	0.0005 mg/m <sup>3</sup> (measured as Cr)	0.005 mg/m <sup>3</sup> (as Cr)	0.0005 mg/m <sup>3</sup> (as Cr)	Not established	0.005 mg/m <sup>3</sup>
	STEL	Not established	1 mg/10m <sup>3</sup> Z C	Not established	Not established	Not established
cyclohexanone	TWA	20 ppm S	50 ppm	20 ppm S	50 ppm S	Not established
	STEL	50 ppm S	Not established	50 ppm S	100 ppm S	Not established
butan-1-ol	TWA	20 ppm	100 ppm	20 ppm	Not established	Not established
	STEL	Not established	Not established	Not established	50 ppm S C	Not established
barium chromate	TWA	0.01 mg/m <sup>3</sup> (measured as Cr)	0.005 mg/m <sup>3</sup> (as Cr)	0.01 mg/m <sup>3</sup> (as Cr)	0.05 mg/m <sup>3</sup>	0.005 mg/m <sup>3</sup>
	STEL	Not established	5 mg/m <sup>3</sup> 1 mg/10m <sup>3</sup> Z C	Not established	Not established	Not established
carbon black, respirable powder	TWA	3 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	Not established
	STEL	Not established	Not established	Not established	7 mg/m <sup>3</sup>	Not established

**Key to abbreviations**

A = Acceptable Maximum Peak  
 ACGIH = American Conference of Governmental Industrial Hygienists.  
 C = Ceiling Limit  
 F = Fume  
 IPEL = Internal Permissible Exposure Limit  
 OSHA = Occupational Safety and Health Administration.  
 R = Respirable  
 Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

S = Potential skin absorption  
 SR = Respiratory sensitization  
 SS = Skin sensitization  
 STEL = Short term Exposure limit values  
 TD = Total dust  
 TLV = Threshold Limit Value  
 TWA = Time Weighted Average

**Consult local authorities for acceptable exposure limits.**

## 8 . Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

**Eyes** : Chemical splash goggles.

**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** : nitrile, neoprene

**Respiratory** : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

**Physical state** : Liquid.

**Flash point** : Closed cup: -0.56°C (31°F)

**Material supports combustion.** : Yes.

**Color** : Green.

**Odor** : Not available.

**pH** : Not available.

**Boiling/condensation point** : >37.78°C (>100°F)

**Melting/freezing point** : Not available.

**Specific gravity** : 1.3

**9 . Physical and chemical properties**

Density ( lbs / gal )	: 10.85
Vapor pressure	: Not available.
Vapor density	: Not available.
Evaporation rate	: Not available.
VOC	: 514 g/l
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.

**10 . Stability and reactivity**

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Materials to avoid	: Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

**11 . Toxicological information**Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LD50 Oral	Rat	10.768 g/kg	-
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LC50 Inhalation	Rat	>21.1 mg/l	4 hours
butanone	LD50 Oral	Rat	2737 mg/kg	-
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LC50 Inhalation	Rat	11243 ppm	4 hours
strontium chromate	Vapor			
	LD50 Oral	Rat	3118 mg/kg	-
	LD50 Oral	Rat	1.54 g/kg	-
cyclohexanone	LD50 Dermal	Rabbit	0.948 g/kg	-
	LC50 Inhalation	Rat	8000 ppm	4 hours
	LD50 Oral	Rat	0.79 g/kg	-
butan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	-
	LC50 Inhalation	Rat	8000 ppm	4 hours
	Vapor			
carbon black, respirable powder	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Dermal	Rabbit	>3 g/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Defatting irritant

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs

: Contains material which causes damage to the following organs: blood, liver, spleen, brain, bone marrow.  
 Contains material which may cause damage to the following organs: kidneys, lungs, peripheral nervous system, upper respiratory tract, skin, bones, central nervous system (CNS), ears, eye, lens or cornea.

## 11 . Toxicological information

### Carcinogenicity

Carcinogenicity : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

### Classification

Product/ingredient name	ACGIH	IARC	NTP
crystalline silica, respirable powder (<10 microns)	A2	1	Known to be a human carcinogen.
strontium chromate	A2	1	Known to be a human carcinogen.
cyclohexanone	A3	3	-
barium chromate	A1	1	Known to be a human carcinogen.
carbon black, respirable powder	A3	2B	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5  
IARC: 1, 2A, 2B, 3, 4  
NTP: Proven, Possible  
Not listed or regulated as a carcinogen: -

## 12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

## 13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

	DOT	TDG	Mexico	IMDG
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	II	II	II	II

Product code **515X349 BASE COMPONENT**Date of issue **9 November 2014** Version **9.02**Product name **515X349 BASE COMPONENT****14. Transport information**

Environmental hazards	No.	Yes.	No.	Yes.
Marine pollutant substances	Not applicable.	(strontium chromate)	Not applicable.	(strontium chromate)
Product RQ (lbs)	80.88	Not applicable.	Not applicable.	Not applicable.
RQ substances	(strontium chromate, n-butyl acetate)	Not applicable.	Not applicable.	Not applicable.

## Additional information

- DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG : The marine pollutant mark is not required when transported by road or rail.
- Mexico : None identified.
- IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**15. Regulatory information**

- United States inventory (TSCA 8b)** : All components are listed or exempted.
- Australia inventory (AICS)** : All components are listed or exempted.
- Canada inventory (DSL)** : All components are listed or exempted.
- China inventory (IECSC)** : All components are listed or exempted.
- Europe inventory (REACH)** : Please contact your supplier for information on the inventory status of this material.
- Japan inventory (ENCS)** : All components are listed or exempted.
- Korea inventory (KECI)** : All components are listed or exempted.
- New Zealand (NZIoC)** : All components are listed or exempted.
- Philippines inventory (PICCS)** : All components are listed or exempted.

United States

SARA 302/304: No products were found.

SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:

<u>Chemical name</u>	<u>CAS #</u>	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Reactive</u>	<u>Pressure</u>
crystalline silica, respirable powder (<10 microns)	14808-60-7	N	Y	N	N	N
n-butyl acetate	123-86-4	Y	N	Y	N	N
butanone	78-93-3	Y	N	Y	N	N
strontium chromate	7789-06-2	Y	Y	N	N	N
cyclohexanone	108-94-1	Y	Y	Y	N	N
butan-1-ol	71-36-3	Y	N	Y	N	N
barium chromate	10294-40-3	Y	Y	N	N	N
carbon black, respirable powder	1333-86-4	N	Y	N	N	N
Product as-supplied :		Y	Y	Y	N	N

SARA 313

Supplier notification

Chemical name  
strontium chromate  
butan-1-ol  
barium chromate

CAS number

7789-06-2  
71-36-3  
10294-40-3

Concentration

7 - 13  
1 - 5  
0.1 - 1

Product code **515X349 BASE COMPONENT**

Date of issue **9 November 2014** Version **9.02**

Product name **515X349 BASE COMPONENT**

## 15. Regulatory information

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### Canada

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

### Mexico

Classification

Flammability : 3 Health : 3 Reactivity : 0

## 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 3 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 3 Instability : 0

Date of previous issue : 11/6/2014.

Organization that prepared the MSDS : EHS

☒ Indicates information that has changed from previously issued version.

### Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Date of issue 17 November 2014

Version 6.01

## 1. Product and company identification

Product name : 910X533 ACTIVATOR COMPNT  
Code : 910X533 ACTIVATOR COMPNT  
Supplier : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711  
Emergency telephone : (412) 434-4515 (U.S.)  
number : (514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

## 2. Hazards identification

Emergency overview : DANGER!  
FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.  
Keep away from flames, such as a pilot light, and any object that sparks; such as an electric motor. Keep away from heat. Do not smoke. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

### Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.  
Ingestion : May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.  
Skin : Harmful in contact with skin. Irritating to skin. May cause an allergic skin reaction.  
Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

### Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. **1-component mixtures:** formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness.

Medical conditions aggravated by over-exposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 2. Hazards identification

See toxicological information (Section 11)

## 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
propan-1-ol	71-23-8	30 - 60
toluene	108-88-3	30 - 60
Proprietary silane	Proprietary	1 - 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 5
bis[(dimethylamino)methyl]phenol	71074-89-0	0.1 - 1
methanol	67-56-1	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5. Fire-fighting measures

- Flammability of the product : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

### Extinguishing media

- Suitable : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable : Do not use water jet.
- Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
metal oxide/oxides  
Formaldehyde.
- Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120F / 49C.

## 8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
propan-1-ol	TWA	100 ppm	200 ppm	100 ppm	200 ppm S	Not established
	STEL	Not established	Not established	Not established	250 ppm S	Not established
toluene	TWA	20 ppm	200 ppm Z	20 ppm	50 ppm S	Not established
	STEL	Not established	500 ppm Z A 300 ppm Z C	Not established	Not established	Not established
methanol	TWA	200 ppm S	200 ppm	200 ppm S	200 ppm S	Not established
	STEL	250 ppm S	Not established	250 ppm S	250 ppm S	Not established

### Key to abbreviations

A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit	TD = Total dust
OSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value
R = Respirable	TWA = Time Weighted Average
Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances	

### Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

- Eyes** : Chemical splash goggles.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : butyl rubber

## 8 . Exposure controls/personal protection

- Respiratory : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

- Physical state : Liquid.
- Flash point : Closed cup: 7.22°C (45°F)
- Material supports combustion. : Yes.
- Color : Clear.
- Odor : Not available.
- pH : Not available.
- Boiling/condensation point : 96.67 to 316.11°C (206 to 601°F)
- Melting/freezing point : Not available.
- Specific gravity : 0.84
- Density ( lbs / gal ) : 7.01
- Vapor pressure : Not available.
- Vapor density : Not available.
- Evaporation rate : Not available.
- VOC : 804 g/l
- Solubility : Insoluble in the following materials: cold water.
- Partition coefficient: n-octanol/water : Not available.

## 10 . Stability and reactivity

- Stability : Stable under recommended storage and handling conditions (see Section 7).
- Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Materials to avoid : Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis
- Hazardous decomposition products : Formaldehyde.
- Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propan-1-ol	LD50 Oral	Rat	1870 mg/kg	-
	LD50 Dermal	Rabbit	4.049 g/kg	-
	LC50 Inhalation Vapor	Rat	>9800 mg/m3	4 hours
toluene	LD50 Oral	Rat	636 mg/kg	-
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LC50 Inhalation Vapor	Rat	49 g/m3	4 hours
Proprietary silane	LD50 Oral	Rat	2413 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Dermal	Rabbit	1.28 g/kg	-
methanol	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LC50 Inhalation	Rat	145000 ppm	1 hours

Conclusion/Summary : Not available.

### Chronic toxicity

Conclusion/Summary : Not available.

### Defatting irritant

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

### Target organs

: Contains material which causes damage to the following organs: brain.  
Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	NTP
propan-1-ol	A4	-	-
toluene	A4	3	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5  
IARC: 1, 2A, 2B, 3, 4  
NTP: Proven, Possible  
Not listed or regulated as a carcinogen: -

### Teratogenicity

Teratogenicity : Contains material which may cause birth defects, based on animal data.

Developmental effects : Contains material which may cause developmental abnormalities, based on animal data.

Fertility effects : Contains material which may impair female fertility, based on animal data.

## 12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

### 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures**

### 14. Transport information

	DOT	TDG	Mexico	IMDG
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	2437.3	Not applicable.	Not applicable.	Not applicable.
RQ substances	(toluene, benzene)	Not applicable.	Not applicable.	Not applicable.

#### Additional information

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**TDG** : None identified.

**Mexico** : None identified.

**IMDG** : None identified.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Product code **910X533 ACTIVATOR COMPNT**  
Product name **910X533 ACTIVATOR COMPNT**

Date of issue **17 November 2014** Version **6.01**

## 15. Regulatory information

**United States inventory (TSCA 8b)** : All components are listed or exempted.  
**Australia inventory (AICS)** : All components are listed or exempted.  
**Canada inventory (DSL)** : All components are listed or exempted.  
**China inventory (IECSC)** : All components are listed or exempted.  
**Europe inventory (REACH)** : Please contact your supplier for information on the inventory status of this material.  
**Japan inventory (ENCS)** : All components are listed or exempted.  
**Korea inventory (KECI)** : All components are listed or exempted.  
**New Zealand (NZIoC)** : All components are listed or exempted.  
**Philippines inventory (PICCS)** : All components are listed or exempted.

### United States

**SARA 302/304:** No products were found.

**SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:**

<u>Chemical name</u>	<u>CAS #</u>	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Reactive</u>	<u>Pressure</u>
propan-1-ol	71-23-8	Y	N	Y	N	N
toluene	108-88-3	Y	Y	Y	N	N
Proprietary silane	Proprietary	Y	N	N	N	N
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	Y	N	N	N	N
bis[(dimethylamino)methyl]phenol	71074-89-0	Y	N	N	N	N
methanol	67-56-1	Y	Y	Y	N	N
Product as-supplied :		Y	Y	Y	N	N

<u>SARA 313</u>	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	toluene	108-88-3	30 - 60

**Additional environmental information** is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### Canada

**WHMIS (Canada)** : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

### Mexico

**Classification**

**Flammability** : 3    **Health** : 3    **Reactivity** : 0

## 16. Other information

**Hazardous Material Information System (U.S.A.)**

**Health** : 3    \*    **Flammability** : 3    **Physical hazards** : 0

**(\*) - Chronic effects**

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Product code **910X533 ACTIVATOR COMPNT**

Date of issue **17 November 2014** Version **6.01**

Product name **910X533 ACTIVATOR COMPNT**

## 16 . Other information

National Fire Protection Association (U.S.A.)

Health : 3      Flammability : 3      Instability : 0

Date of previous issue : **10/10/2014.**

Organization that prepared : EHS  
the MSDS

☒ Indicates information that has changed from previously issued version.

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*

# RELEASE CERTIFICATE

## AIR DYNAMICS

19420B Clark Graham Avenue  
Baie d'Urfé, Québec, H9X 3R8

514-457-4287

AD-1(A)  
QTY: 6



NOMENCLATURE

PRIMER - GREEN (GALLON KIT)

PART NUMBER

515X349

MODEL or TYPE

MAKE

PRC-PPG

SERIAL NUMBER

515X349 BASE LOT#444418

910X533 ACT. LOT#205336

NEW



REPAIRED

INSPECTED

OVERHAULED

MODIFIED

PREVIOUS CERTIFICATION

B#30852 (KIT LOT#515365) EXP: SEPT/

2015

I HEREBY CERTIFY THAT THE AIRCRAFT PARTS, APPLIANCES AND/OR MATERIALS DESCRIBED HEREON  
WERE ACQUIRED FROM A SOURCE OF SUPPLY THAT IS CONSISTANT WITH THE CONDITIONS UNDER  
WHICH THE DEPARTMENT OF TRANSPORT DISTRIBUTOR APPROVAL NO. 12-89 HAS BEEN GRANTED

DATE

NOVEMBER 27, 2014

INSPECTOR'S SIGNATURE

Brenda Shen

JE CERTIFIE PAR LE PRESENT QUE LES PIECES D'AERONEFS  
DECLARÉES DANS LE PRESENT CERTIFICAT ONT ÉTÉ OBTENUES D'UNE  
SOURCE D'APPROVISIONNEMENT CONFORME AUX CONDITIONS  
AUXQUELLES LE CERTIFICAT D'AUTORISATION DE DISTRIBUTION  
NO. 12-89 DU MINISTÈRE DES TRANSPORTS A ÉTÉ ATTRIBUÉ.

DATE

27 Novembre 2014

SIGNÉ

Brenda Shea

